



RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/498,556C

DATE: 04/15/2003  
TIME: 13:22:09

Input Set : A:\Corvas-sequence listing.txt  
Output Set: N:\CRF4\04152003\I498556C.raw

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131 20 39 40  
 132 Leu Leu Pro Pro Ala Cys Val Cys Lys Asp Gly Phe Tyr Arg  
 133 45 50 55  
 134 Asp Thr Val Ile Gly Asp Cys Val Arg Glu Glu Glu Cys Asp  
 135 60 65 70  
 136 Gln His Glu Ile Ile His Val  
 137 75  
 138 <10> SEQ ID NO: 1  
 139 <11> LENGTH: 455  
 140 <12> TYPE: DNA  
 141 <13> ORGANISM: Ascyclostoma caninum  
 142 <14> FEATURE:  
 143 <15> NAME/KEY: CPS  
 144 <16> LOCATION: (12)..(315)  
 145 <17> FEATURE:  
 146 <18> NAME/KEY: MOD\_RMS  
 147 <19> OTHER INFORMATION: AcaNAP6 cDNA sequence  
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 149 <21> ATG: 51  
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 155 <27> 30 35 40 45  
 156 <28> 35 40 45 50 55  
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 208 <80> 295 300 305 310 315 320 325  
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 217 <89> 340 345 350 355 360 365 370  
 218 <90> 345 350 355 360 365 370 375  
 219 <91> 350 355 360 365 370 375 380  
 220 <92> 355 360 365 370 375 380 385  
 221 <93> 360 365 370 375 380 385 390  
 222 <94> 365 370 375 380 385 390 395  
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191 26 25 30  
 192 Pro Ile Cys Arg Ser Phe Ser Cys Pro Gly Pro Ala Ala Cys Val Cys  
 193 35 40 45  
 194 Glu Asp Gly Phe Tyr Arg Asp Thr Val Ile Gly Asp Cys Val Lys Glu  
 195 50 55 60  
 196 Glu Glu Cys Asp Gln His Glu Ile Ile His Val  
 197 65 70 75  
 200 2100+ SEQ ID NO: 7  
 201 2111+ LENGTH: 71  
 202 2112+ TYPE: PRT  
 203 2113+ ORGANISM: Ancylostoma caninum  
 204 2140+ SEQUENCE: 7  
 207 Arg Thr Val Arg Lys Ala Tyr Pro Glu Cys Gly Glu Asn Glu Trp Leu  
 208 1 5 10 15  
 209 Asp Asp Cys Gly Thr Gln Lys Pro Cys Gln Ala Lys Cys Asn Glu Glu  
 210 15 20 25 30  
 211 Pro Ile Glu Glu Asp Pro Ile Cys Arg Ser Arg Gly Cys Leu Leu  
 212 25 30 35 40 45  
 213 Pro Ile Ala Cys Val Cys Lys Asp Gly Phe Tyr Arg Asp Thr Val Ile  
 214 35 40 45 50 55 60  
 215 Gly Asp Cys Val Arg Glu Glu Glu Cys Asp Gln His Glu Ile Ile His  
 216 65 70 75 80  
 217 Val  
 218 2150+ SEQ ID NO: 8  
 219 2111+ LENGTH: 79  
 220 2112+ TYPE: PRT  
 221 2113+ ORGANISM: Ancylostoma caninum  
 222 2140+ SEQUENCE: 8  
 227 Arg Thr Val Arg Lys Ala Tyr Pro Glu Cys Gly Glu Asn Glu Trp Leu  
 228 1 5 10 15  
 229 Asp Val Cys Gly Thr Lys Lys Pro Cys Gln Ala Lys Cys Ser Glu Glu  
 230 10 15 20 25 30  
 231 Glu Glu Glu Asp Pro Ile Cys Arg Ser Phe Ser Cys Pro Gly Pro Ala  
 232 25 30 35 40 45  
 233 Ala Cys Val Cys Gln Asp Gly Phe Tyr Arg Asp Thr Val Ile Gly Asp  
 234 40 45 50 55 60  
 235 Cys Val Lys Glu Glu Glu Cys Asp Gln His Glu Ile Ile His Val  
 236 65 70 75  
 239 2110+ SEQ ID NO: 9  
 240 2111+ LENGTH: 711  
 241 2112+ TYPE: DNA  
 242 2113+ ORGANISM: Ancylostoma ceylanicum  
 243 2120+ FEATURE:  
 244 2121+ NAME/KEY: CDS  
 245 2122+ LOCATION: (11)..(591)  
 246 2120+ FEATURE:  
 247 2121+ NAME/KEY: MOD\_RES  
 248 2123+ OTHER INFORMATION: Recombinant cDNA Molecule AceNAP4 sequence  
 252 2140+ SEQUENCE: 9

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/498,556C

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Input Set : A:\Corvas-sequence listing.txt  
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254 aaattcaacta ttatccaaaca atg gcg gtg ctt tat tca gta gca ata gcg 50  
 255 Met Ala Val Leu Tyr Ser Val Ala Ile Ala  
 256 1 5 10  
 257 tta cta ctg gta tca caa tgc ayt ggg aaa ccg aac aat gtg atg ac 98  
 258 Leu Leu Val Ser Gln Cys Ser Gly Lys Pro Asn Asn Val Met Thr  
 259 15 20 25  
 260 aac aet tat ggt ctt aat gaa tat ttc aet gag ttt ggc aat atg aag 146  
 261 Asn Ala Cys Gly Leu Asn Glu Tyr Phe Ala Glu Cys Gly Asn Met Lys  
 262 30 35 40  
 263 gaa tgc gac ccc aca tpc aat gag gag gaa aat jaq gaa aag gag gag 194  
 264 Glu Cys Glu His Arg Cys Asn Glu Glu Glu Asn Glu Glu Arg Asp Glu  
 265 45 50 55  
 266 gaa aca ata aac gca ttc ctc atc cgt gtg ttt ttc cgt ctt ggt gct 247  
 267 Glu Arg Ile Thr Ala Cys Leu Ile Arg Val Cys Phe Arg Pro Gly Ala  
 268 60 65 70  
 269 tgc gta tpc aac gac gta ttc tat aca aac aca ggc aac aet gtt gtt gtt 296  
 270 Cys Val Cys Lys Asp Gly Phe Tyr Arg Asn Arg Thr Gly Ser Cys Val  
 271 75 80 85 90  
 272 gaa gaa gtc gac tcc gac tcc gag aat atg gag ttc atc act ttt gca 331  
 273 Glu Glu Arg Asp Cys Glu Tyr Glu Asn Met Glu Phe Ile Thr Phe Ala  
 274 95 100 105  
 275 cca gaa gta ccc aac atc ttt ggt tcc aac gca aac tac tcc gag tgc ggc 386  
 276 Pro Glu Val Pro Ile Cys Gly Ser Asn Glu Arg Tyr Ser Asp Cys Gly  
 277 110 115 120  
 278 aat gac aca caa tcc gag ccc aac tgc aac gtc gag gat tat gag aag 434  
 279 Asn Asp Lys Gln Cys Glu Arg Lys Cys Asn Glu Asp Asp Tyr Glu Lys  
 280 130 135 140  
 281 gga gat gac gca tcc ccc tca cat gtt tat gaa cgt ctt ggt gcc ttt 481  
 282 Gly Asp Glu Ala Cys Arg Ser His Val Cys Glu Arg Pro Gly Ala Cys  
 283 140 145 150  
 284 gta tgc gca gac ggg ttc tac aya aac aya aya ggt aya ttt gtg gaa 531  
 285 Val Cys Glu Asp Gly Phe Tyr Arg Asn Lys Lys Gly Ser Cys Val Glu  
 286 155 160 165 170  
 287 ayc gat gac tcc gaa tac gat aat atg gat gtt ttc atc act ttt gca cca 571  
 288 Ser Asp Asp Cys Glu Tyr Asp Asn Met Asp Phe Ile Thr Phe Ala Pro  
 289 175 180 185  
 290 gaa acc tca ccc tcccaaga tgcacctct cgtacgcaac tccgtgtatt gaggtt 636  
 291 Glu Thr Ser Arg  
 292 190  
 293 gatgtttttt ctggcatctc aacatttttt ttgtgtatgt gtgcattgtga gcttaacctg 696  
 294 ataaagctt tgggtt 711  
 295 296 : SEQ ID NO: 10  
 297 : 298 : LENGTH: 425  
 298 : 299 : TYPE: DNA  
 300 : 301 : ORGANISM: Anycyclostoma ceylanicum  
 301 : 302 : FEATURE:  
 302 : 303 : NAME/KEY: CDS  
 303 : 304 : LOCATION: (10)..(291)  
 304 : 305 : FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/498,556CDATE: 04/15/2003  
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## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:66; Xaa Pos. 2,3,4,5,6,7,8,9  
Seq#:67; Xaa Pos. 2,3,4,5,6,7,8,9  
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Seq#:85; Xaa Pos. 1,2,3,4  
Seq#:86; Xaa Pos. 2,3,4,5,6,7,8,9  
Seq#:87; Xaa Pos. 2,3,4,5,6,7,8,9  
Seq#:88; N Pos. 6  
Seq#:89; N Pos. 6,9,18  
Seq#:90; N Pos. 6,12,21  
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Seq#:119; Xaa Pos. 1,4,5,7  
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Seq#:130; Xaa Pos. 1,2,4,5,6  
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Seq#:145; Xaa Pos. 1,2,3,5,6,7,8,9,10,11,12  
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Seq#:148; Xaa Pos. 2,1,4,5,6  
Seq#:149; Xaa Pos. 2,1,4,5  
Seq#:150; Xaa Pos. 2,1,4  
Seq#:151; Xaa Pos. 1,4,5,6,7,8,9,10,11,12,13,14,15  
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Seq#:154; Xaa Pos. 2,5,4,3,6,7

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Seq#:159; Xaa Pos. 2,,3,4  
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Seq#:246; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13  
Seq#:247; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12  
Seq#:248; Xaa Pos. 2,3,4,5,6,7,8,9,10,11  
Seq#:249; Xaa Pos. 2,3,4,5,6,7,8,9,10  
Seq#:250; Xaa Pos. 2,3,4,5,6,7,8,  
Seq#:251; Xaa Pos. 2,3,4,5,6,7,  
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Seq#:253; Xaa Pos. 2,3,4,5,6  
Seq#:254; Xaa Pos. 2,3,4,5,6,7  
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Seq#:259; Xaa Pos. 23  
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Seq#:262; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22  
Seq#:263; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22  
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Seq#:275; Xaa Pos. 2,3,4,5  
Seq#:276; Xaa Pos. 2,3,4,4  
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Seq#:280; Xaa Pos. 2,3,4,5,6,7,8  
Seq#:281; Xaa Pos. 2,3,4,5,6,7  
Seq#:282; Xaa Pos. 2,3,4,5,6  
Seq#:283; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22  
Seq#:284; Xaa Pos. 23,24,25,26  
Seq#:285; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22  
Seq#:286; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22  
Seq#:287; Xaa Pos. 23

RAW SEQUENCE LISTING ERROR SUMMARY  
 PATENT APPLICATION: US/09/498,556C

DATE: 04/15/2003  
 TIME: 13:22:10

Input Set : A:\Corvas-sequence listing.txt  
 Output Set: N:\CRF4\04152003\I498556C.raw

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 Seq#:291; Kaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19  
 Seq#:292; Kaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18  
 Seq#:293; Kaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18  
 Seq#:294; Kaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15  
 Seq#:295; Kaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14  
 Seq#:296; Kaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13  
 Seq#:297; Kaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13  
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 Seq#:303; Kaa Pos. 2,3,4,5,6  
 Seq#:304; Kaa Pos. 2,3,4,5  
 Seq#:305; Kaa Pos. 2,3,4  
 Seq#:306; Kaa Pos. 2,3,4  
 Seq#:307; Kaa Pos. 2,3  
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 Seq#:316; Kaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19  
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 Seq#:327; Kaa Pos. 2,3,4  
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 Seq#:329; Kaa Pos. 2,3,4,5  
 Seq#:330; Kaa Pos. 2,3,4  
 Seq#:331; Kaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15  
 Seq#:332; Kaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14  
 Seq#:333; Kaa Pos. 2,3,4,5,6,7,8  
 Seq#:334; Kaa Pos. 2,3,4,5,6,7

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/498,556CDATE: 04/15/2003  
TIME: 13:11:10Input Set : A:\Corvas-sequence listing.txt  
Output Set: N:\CRF4\04152003\I498556C.raw

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Seq#:336; Xaa Pos. 1,3,24,25,26  
Seq#:337; Xaa Pos. 1,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22  
Seq#:337; Xaa Pos. 1,3,24,25  
Seq#:338; Xaa Pos. 1,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22  
Seq#:338; Xaa Pos. 1,3,24  
Seq#:339; Xaa Pos. 1,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22  
Seq#:339; Xaa Pos. 1,3  
Seq#:340; Xaa Pos. 1,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22  
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Seq#:341; Xaa Pos. 1,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20  
Seq#:342; Xaa Pos. 1,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19  
Seq#:343; Xaa Pos. 1,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18  
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Seq#:346; Xaa Pos. 1,3,4,5,6,7,8,9,10,11,12,13,14,15,16  
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Seq#:354; Xaa Pos. 1,3,4,5,6,7,8  
Seq#:355; Xaa Pos. 1,3,4,5,6,7  
Seq#:356; Xaa Pos. 1,3,4,5,6  
Seq#:357; Xaa Pos. 1,4

## Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:68; Line(s) 1996,2001